

## TABLE OF CONTENTS

### DOE BULLETIN BOARD

What's New on the FEMP Website

### CONGRESSIONAL ACTIVITIES

Congressional Schedule

FY 2005 Appropriations

Status of Pending Authorization Bills of Interest to FEMP

### FEDERAL AGENCY ACTIVITIES

Department of Defense (DOD)

Department of Energy (DOE)

DOE National Laboratory Activities

Environmental Protection Agency (EPA)

Federal Energy Regulatory Commission (FERC)

General Services Administration (GSA)

State Department

Southeast Region

Northeast Region

Central Region

Midwest Region

Mid-Atlantic Region

Western Region

### STATE AND LOCAL GOVERNMENT ACTIVITIES

Southeast Region

Northeast Region

Central Region

Midwest Region

Mid-Atlantic Region

Western Region

### UTILITIES AND SUPPLIER ACTIVITIES

Southeast Region

Northeast Region

Central Region

Midwest Region

Mid-Atlantic Region

Western Region

## PRIVATE SECTOR

Southeast Region

Midwest Region

Northeast Region

Mid-Atlantic Region

Central Region

Western Region

## MEETINGS, CONFERENCES AND TRAINING WORKSHOPS

Multiple Regions

Midwest Region

Southeast Region

Mid-Atlantic Region

Northeast Region

Western Region

Central Region

## STUDIES, REPORTS, AND ANALYSES

Energy and Water Conservation

Solar and Renewable Energy

## APPENDICES

A – Status of FY 2005 Appropriations Bills

B – FY 2005 Appropriations Covered to Date

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C – New Technologies

D– Meetings, Conferences, and Other Events

The **FEMP MONTHLY UPDATE** is prepared expressly for the Department of Energy's Office of Federal Energy Management Programs (FEMP). The purpose of the **UPDATE** is to provide FEMP management staff with timely information on topics relevant to the program. This includes the status of pending Federal and state legislation and summaries of public and private sector energy-related activities. The **FEMP MONTHLY UPDATE** is prepared for FEMP by Energetics, Incorporated, (202) 479-2748.

## DOE BULLETIN BOARD

*Short-Term Energy Outlook, Energy Information Administration (EIA), July 2004*

The West Texas Intermediate spot price for crude oil remains in the upper \$30's per barrel; the prices are lower than the \$40 per barrel seen in early June. Petroleum inventories are low throughout the industrialized world. U.S. demand for petroleum is forecasted to average about two percent increase per year. The projected average price remains high at \$37.00 per barrel due to uncertainties with Middle East instability, terrorism, and low inventories.

Natural gas prices, as reported at the Henry Hub, have increased nine percent from 2003 to current levels of \$6.30 per thousand cubic feet. Natural gas demand is expected to increase due to economic growth and below-average hydroelectric power levels in the Pacific Northwest.

Coal demand will remain low due to sharply increased spot prices in response to more stringent regulations on coal-burning power plants. Electricity prices continue to rise as a result of increased demand (four percent in the second quarter).

### WHAT'S NEW ON THE FEMP WEB SITE

See FEMP's e-learning pilot at [www.study-center.com/femp](http://www.study-center.com/femp). Anytime, anywhere classes are offered in the following subjects: Distributed Energy, Lighting Systems, Motors & Drives Series, Natural Gas and more.

[Back to Table of Contents](#)

## CONGRESSIONAL ACTIVITIES

### CONGRESSIONAL SCHEDULE

Both the House and Senate are scheduled to recess on Friday, July 23 through Monday, September 6.

### FY 2005 APPROPRIATIONS

- Refer to [Appendix A](#) for the Status of Appropriations chart
- Refer to [Appendix B](#) for details on provisions of interest in pending FY 2005 appropriations bills.

***Appropriations in General*** Last week, Ted Stevens (R/AK), Chair of the Senate Committee on Appropriations reiterated his prediction from earlier this year that Congress will pass an Omnibus bill covering up to 12 of the 13 FY 2005 appropriations bills. In public remarks, Chairman Stevens said, "We will wait for the House to send us an omnibus bill...Within the omnibus, on every one of the bills we will have a debate. The question is, will it be before the election or after the election?" To date, the House has passed seven of the 13 annual appropriations bills and the Senate has approved only one bill. Defense appropriations.. In addition, last week, the House and Senate agreed on an FY 2005 discretionary funding level of \$821.9 billion.

Actions this week included:

- House and Senate conferees completed negotiations on *H.R. 4613/S. 2559 – FY 2005 Defense Appropriations*

### House

- Subcommittee on Treasury and Transportation Appropriations marked up *H.R. (unnumbered) - FY 2005 Appropriations of Treasury and Transportation* and the full committee may mark up the bill by July 23.
- Committee on Appropriations may mark up *H.R. 4421 – FY 2005 Appropriations for the Environmental Protection Agency* (bill part of *FY 2005 Appropriations for Veterans' Affairs, Housing and Urban Development, and Independent Agencies*) (July 23)

## Senate

- Committee on Energy and Water Development may mark up *S. (unnumbered) - FY 2005 Appropriations for Energy and Water Development* (no scheduled has been announced)
- Committee on Appropriations marked up *S. 2674 – FY2005 Appropriations for Military Construction* (no schedule has been announced)

## STATUS OF PENDING AUTHORIZATION BILLS OF INTEREST TO FEMP

**Comprehensive Energy Legislation** During the past month, there was been no progress in moving forward comprehensive energy legislation. However, this week, the House and Senate Conference Committee were expected to meet to discuss a major corporate tax bill (*H.R. 4520/S. 1637*), to protect domestic manufactures' products in the global marketplace. The Senate attached to their version of the bill, an \$18 billion energy amendment to cover tax credits for energy efficiency and renewable energy, oil and gas, among other sources of energy. The House version has a limited amount of credits and it is unclear whether conferees can reconcile their differences on the energy tax credits in order to agree on provisions for one bill. The policy and reauthorization provisions in both the House energy bill (*H.R. 6*) and the Senate bill (*S. 2095*) have yet to be addressed by a conference committee because the Senate bill has not yet been considered by the full Senate due to a lack of a majority of support by members.

[Back to Table of Contents](#)

## FEDERAL AGENCY ACTIVITIES

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### DEPARTMENT OF DEFENSE (DOD)

*No new information of interest to report*

### DEPARTMENT OF ENERGY (DOE)

**2004 Presidential Energy and Environmental Awards** During a July ceremony held at the State Department in Washington, D.C., 18 teams and individuals were honored for implementing exemplary energy efficient projects. At the same ceremony, winners of the 10<sup>th</sup> annual Closing the Circle Awards were also recognized for outstanding environmental stewardship. The Presidential Award program for Leadership in Federal Energy Management was established by *Executive Order 13123*. Six teams received the award, which resulted in an annual energy savings of 1.8 trillion Btus; this is equivalent to energy used in more than 17,000 typical homes. Award recipients included the Pacific Northwest National Laboratory, the Environmental Protection Agency's Green Power Purchase Program, the General Services Administration's New England Region "Team Save," the Health and Human Services Energy

Team, the Marine Corps Energy Management Team, and the Air Force Renewable Energy Team.

**Appliance Efficiency Standards** DOE's Office of Energy Efficiency and Renewable Energy (EERE) announced plans to issue "advanced notices of proposed rulemaking" for three product categories: (1) residential furnaces and boilers, (2) commercial room air conditioners, and (3) distribution transformers. Acting Under Secretary and Assistant Secretary for EERE David Garman made the announcement in late June.

#### DOE NATIONAL LABORATORY ACTIVITIES

**Lawrence Berkeley National Laboratory (LBNL)** LBNL has added 4,000 gallons of ethanol to the laboratory's the fuel tank to power 60 vehicles. LBNL is now the largest ethanol dispensing station in northern California. Additional 15 flex-fuel vehicles, capable of running on ethanol and gasoline, will soon be added to the laboratory's fleet. The laboratory's goal is to transition LBNL's current fleet of 250 vehicles to ethanol. In doing so, LBNL will reach its alternative-fuel target for reduced air emissions; a 1999 executive order established a target for all Federal facilities. The vehicle conversion program was funded in part by a \$83,000 grant from the Department of Energy.

**Demand Response Center Established** The California Energy Commission's Public Interest Research Program recently provided \$8 million to LBNL to establish a new Demand Response Center at the laboratory. The purpose of the center is to address electricity-demand policies, issues, utility markets, technologies, and utility customer energy use patterns, among other issues. The center will perform research as well as fund research conducted by outside groups to address state-related concerns. For further information, contact Allan Chen at 510-486-4210 or [a\\_chen@lbl.gov](mailto:a_chen@lbl.gov).

#### ENVIRONMENTAL PROTECTION AGENCY (EPA)

**EnergyStar® Produce Category Expands** On June 30, EPA announced the addition of energy efficient room air cleaners to the EnergyStar® product line. To be eligible, equipment models must be 35 percent more efficient than standard units. To date, six companies have made a commitment to manufacture models that meet the new EnergyStar® specifications for room air cleaners. EPA estimates that a consumer could save up to \$200 over the lifetime of an energy efficient unit and that due to increased consumer interest in room air conditioners, EnergyStar® models could result in consumer savings of over \$200 million over a five-year period. For more information, visit [www.energystar.gov](http://www.energystar.gov).

#### FEDERAL ENERGY REGULATORY COMMISSION (FERC)

*No new information of interest to report.*

#### GENERAL SERVICES ADMINISTRATION (GSA)

**New Contracting Office** GSA has announced the establishment of a new office to oversee the agency's contracting policies. The Office of the Chief Acquisition Officer, which will be temporarily headed by Karl Reichelt, GSA's Chief of Staff, will be responsible for the agency's compliance with established Federal contracting procedures. In announcing the new office, GSA Administrator Stephen Perry said, "leadership, management skills and commitment to improving our acquisition activities is just what is needed to get this new office off to a successful start." The office will provide the agency's procurement workforce of 2,400 officials

located throughout the U.S. with “policy, training and management” to ensure procurement compliance. The new office assumes the responsibility for GSA’s Office of Governmentwide Policy, the Divisions of Contract Policy and Acquisition Systems, and the Senior Procurement Executive. (Source: GovEXEC.com, June 22, 2004)

**Proposed Rule** In the July 21 issue of the *Federal Register* (FAR), GSA announced a proposed rule to amend the Federal Acquisition Regulations as follows.

Changing the terms ‘performance-based contracting and performance-based service Contracting (PBSC)’ to ‘performance-based acquisition (PBS) or performance-based service acquisition (PBSA).

The purpose of the proposed rule is to provide Federal agencies with increased flexibility in applying PBSA’s to contracts and orders of varying complexity and to reduce the agencies’ burden of “force-fitting” a contract or order into a PBA. GSA is collecting comments on the proposed rule, which must be submitted by September 20, 2004; email comments to [farcase.2003-018@gsa.gov](mailto:farcase.2003-018@gsa.gov). To view the proposed rule, go to [www.regulations.gov](http://www.regulations.gov) and refer to FAR case 2003-018.

**Natural Gas Purchase** GSA announced in early July the agency’s interest in identifying sources to supply and transport natural gas to Federal facilities nationwide. Proposals were to be submitted to the agency by July 20, 2004. For further information, contact Linda Collins at 202-205-5049 and refer to Solicitation Number GS-00P-04-BSC-0298.

#### STATE DEPARTMENT

**First Solar Panels Installed in American Overseas Facility** Once its new solar electric system is operational, the U.S. Mission to the United Nations in Geneva, Switzerland, will become the first American foreign diplomatic building using solar power as part of its electric energy source. The photovoltaic panels will be placed on the roof in order to provide up to 20 percent of the building’s energy requirements. The U.S. and Swiss governments are collaborating to finance the \$1.5 million project. Local Swiss utility companies will provide backup power when needed.

#### SOUTHEAST (FORMERLY ATLANTA) REGION

**Assessing Geothermal Heat Pumps** Tyndall Air Force Base in Florida, is seeking a source to evaluate the potential for installing a closed loop heat exchange for the base. To obtain additional information, contact Louis Anderson at 850-283-8638 and refer to Solicitation Number F5ESCE41770700.

#### NORTHEAST (FORMERLY BOSTON) REGION

*No new information of interest to report*

#### CENTRAL (FORMERLY CHICAGO) REGION

*No new information of interest to report*

#### MIDWEST (FORMERLY DENVER) REGION

*No new information of interest to report*

## MID-ATLANTIC (FORMERLY PHILADELPHIA) REGION

**Two-Year Lease of for a Fuel Cell Vehicle** USPS announced plans to lease, for a two-year period, a fuel cell vehicle (FCV) from General Motors (GM). The vehicle will be used to deliver mail in the Washington, D.C. Metropolitan Area. USPS will drive a GM minivan beginning September 1, which coincides with Shell opening the area's first hydrogen pump at a retail gas station. Shell and GM have partnered to provide the vehicle with hydrogen fuel.

## WESTERN (FORMERLY SEATTLE) REGION

**Ethanol Refueling System** The Naval Facilities Engineering Command is seeking sources to install an ethanol fueling station at the Marine Corps Air Ground Combat Center, Twentynine Palms, California. For more information on the 10,000 gallon, above ground system, contact Georgiann Watts at 760-830-7419 and refer to Solicitation Number N68711-04-T-7736.

[Back to Table of Contents](#)

## STATE AND LOCAL GOVERNMENT ACTIVITIES

## SOUTHEAST (FORMERLY ATLANTA) REGION

*No news of interest to report.*

## NORTHEAST (FORMERLY BOSTON) REGION

**Rhode Island Governor Donald Carcieri (R) has signed into law, a renewable portfolio standard (RPS), which includes a requirement for utilities to use renewable energy for a percentage of total electricity sales.** Initially, the bill will require three percent of Rhode Island's electricity to come from renewable energy sources by the 2007, increasing to 16 percent by 2019, with not more than two percent of sales generated from currently existing renewable energy projects. The bill includes price protection with an alternative compliance payment if the incremental cost of renewable energy exceeds 45 per kWh, and the ability of the Public Utilities Commission to slow the required annual percentage increase of renewable energy. A utility will have to contribute \$50 per MWh of shortfall to a Renewable Energy Development Fund if the renewable energy requirement is not met. Eligible sources of renewable energy include solar, wind, ocean, and geothermal energy, certain biomass resources, and run-of-river hydropower plants not larger than 30-MW in capacity. During the past three years, People's Power & Light, Rhode Island Public Interest Group (RIPIRG), and Clean Water Action collaborated ensure passage of the bill. Bill sponsors stressed that support for the bill was based on the economic benefits that accompany an RPS, such as increased jobs. (Source: *SolarAccess.Com*, June 25, 2004; *EERE Network News*, July 7, 2004)

**In Massachusetts, Otis Air National Guard Base in the Cape Cod National Seashore fleet have adopted B20 biodiesel, 80 percent standard diesel fuel mixed with 20 percent renewable soybean oil, for 15 trucks and heavy machinery in their fleet.** "Even the 20 percent, it's amazing how much that cuts down on emissions," said Seashore chief of maintenance Ben



Pearson. The improved air quality is important in the polluted region. Cape & Islands Self-Reliance, a Falmouth-based nonprofit group that supports sustainable technologies, hopes to make biodiesel more accessible to Cape Code. (Source: *Cape Cod Times*, June 21, 2004)

**Governor George Pataki (R) has announced a plan to provide more than \$15 million to support 52 distributed generation and combined heat and power projects throughout New York State.** New York State Energy Research and Development Authority (NYSERDA) is funding the projects, which will represent \$62 million in advanced distributed energy initiatives. Governor Pataki said, "These projects will help us achieve our ambitious goal of becoming a world leader in developing clean energy technologies. By supporting the use of advanced technologies such as fuel cells, micro-turbines and clean generators, our investments are helping to reduce energy costs, protect our environment and ensure the availability of reliable power for energy consumers throughout the State." Several New York state projects have earned recognition from the Environmental Protection Agency, including a New York Power Authority project involving the installation of eight biogas-fueled fuel cells at wastewater treatment plants in Brooklyn, the Bronx, and Staten Island; and a project that installed two natural gas-fueled engines at the Greater Rochester International Airport. (Source: *Clean Edge News*, July 8, 2004)

#### CENTRAL (FORMERLY CHICAGO) REGION

**A task force established by Governor Rod Blagojevich (D) to examine how the State of Illinois can prevent electric utility blackouts has recommended an increase in the use of renewable energy.** The "Special Task Force on the Condition and Future of Illinois' Energy Infrastructure" submitted four major recommendations to be implemented over a 10-year period:

- Develop renewable energy sources (e.g., wind, solar, biomass)
- Increase spending for the state's energy efficiency program by per capita to reach at least the national average
- Implement interconnection standards to increase the ability of alternative power sources to "plug in" to the electrical grid
- Enable utility customers to better manage and control energy consumption through innovative price-response programs

(Source: *Wind Energy Weekly*, July 16, 2004)

**Missouri Department of Transportation (MoDOT) is in the process of converting their entire fleet to flex-fuel vehicles (FFV).** A 2,000 gallon ethanol pump, capable of filling 90 vehicles, is located at MoDOT's Central District Office in Jefferson City. Along with increasing the number of FFVs, MoDOT is encouraging the development of ethanol fueling facilities in Missouri, starting with Macon and Willow Springs. Currently, there are eight E85, 85 percent ethanol pumps in Missouri. Donnell Rehagen, MoDOT Fleet Manager said, "There are so many good reasons to use E85. A main benefit is that E85 is a Missouri grown product and it supports our farmers. E85 is also a renewable fuel so we are doing our part to reduce our country's demand for foreign oil." The complete conversion of the fleet is expected to take a few years. (Source: *FYI Newsletter Volume 9, Issue 11*, July 15, 2004)

**The Missouri Department of Natural Resources' new program, Missouri Schools Going Solar (MSGs), has issued the agency's first cycle of grants for solar schools.** The



Missouri Energy Center and Ameren, an energy services company (ESCO), have partnered to provide 1-kW solar arrays to seven qualifying schools. The solar system will offset some of the electrical load for the school and educate the students. MSGS anticipates awarding up to 20 schools with 1-kW arrays. The next application deadline is October 29, 2004; the Request for Proposals is available at [www.moolb.mo.gov/bidlist/biddetail.asp?which=B1Z04320](http://www.moolb.mo.gov/bidlist/biddetail.asp?which=B1Z04320). For more information on MSGS, visit [www.dnr.mo.gov/energy/renewables/solar-schools.htm](http://www.dnr.mo.gov/energy/renewables/solar-schools.htm).

**Chicago's Millennium Park has been completed and include the addition of five photovoltaic systems.** The solar electric systems, totaling over 80-kW, combine function with aesthetics through the use of building integrated photovoltaics (BIPV). Impressive, large glass cubes house the elevators leading to a parking garage and information center. Four sides of the cube are BIPV curtain walls, which are non-load bearing exterior walls. Dark PV cells encased in laminates with color-matched backsheets achieve an appearance congruent with the minimalist design of the Pavilions. In addition to the four pavilions, a bicycle shelter is outfitted with PV panels, including panels with clear backs for aesthetics. The Millenium Park was outfitted with BIPV by Spire Corporation. (Source: Spire Solar Chicago press release, July 15, 2004)

**The City of Ames, Iowa, plans to install wind turbines on a research facility located on the campus of Iowa State University,** which is located in Ames. The project, which is being conducted in collaboration between the city, the university, and DOE's Ames Research Laboratory, will test two utility-scale wind turbines for the purpose of providing the City of Ames with electricity and the laboratory with hydrogen. The Department of Energy contributed \$6 million in grants to support this effort. (Source: *Wind Energy Weekly*, July 16, 2004).

#### MIDWEST (FORMERLY DENVER) REGION

*No news of interest to report.*

#### MID-ATLANTIC (FORMERLY PHILADELPHIA) REGION

*No news of interest to report.*

#### WESTERN (FORMERLY SEATTLE) REGION

**In July, Nevada Governor Kenny Guinn (R) proposed a plan to increase the use of renewable energy in his state.** The proposal includes the creation of a "Temporary Renewable Energy Development" trust, funded by charges on utility customer bills that will be itemized specifically for renewable project development. The proposal will be submitted to the state Public Utility Commission requesting a rulemaking process. In announcing his proposal, Governor Guinn said, "We are accomplishing two things today. We are proposing changes that will give investors in Nevada Renewable projects additional reasonable guarantees that will receive a fair return on their investments. We are also giving our utilities a chance to use more renewable energy sooner." (Source: *Wind Energy Weekly*, July 16, 2004)

**The Santa Clara Valley Water District's \$2.4 million 200-kW solar electric system went online June 19 in San Jose, California.** The photovoltaic panels are located on the roof of an administration building and two new carports at the headquarters campus. Fat Spaniel Technologies, selected by the district to monitor the system, will set up a PV2Web™ solar monitoring solution with a kiosk in the district's headquarters and administration building lobbies. The public will be able to follow live energy data in real-time at [www.valleywater.org](http://www.valleywater.org), a website

accompanying the information provided by the information kiosk. (Source: Fat Spaniel Technologies press release, June 18, 2004)

**The City Council in Los Angeles approved a Renewables Portfolio Standard (RPS) requiring the Los Angeles Department of Water and Power (LADWP) to obtain 20 percent of the utility's electricity from renewable resources by 2017.** Currently, more than 50 percent of LADWP's power is generated by coal-fired plants, and less than three percent is derived from renewable resources whereas the rest of California receives 12 percent of its power from renewable energy. LADWP is required to adopt a plan for achieving the renewable goal by the end of this year, including milestones to accomplish the goal. A Renewables Land Trust will be established as part of a power investment plan and policy. Some environmental groups are concerned that LADWP will focus on its plants to build a new coal-fired plant in Utah and miss the 20 percent renewable resources by 2017 deadline. (Source: *Refocus Weekly*, July 7, 2004; *Clean Edge News*, July 8, 2004)

[Back to Table of Contents](#)

## UTILITIES AND SUPPLIER ACTIVITIES

### SOUTHEAST (FORMERLY ATLANTA) REGION

*No news of interest to report.*

### NORTHEAST (FORMERLY BOSTON) REGION

*No news of interest to report.*

### CENTRAL (FORMERLY CHICAGO) REGION

*No news of interest to report.*

### MIDWEST (FORMERLY DENVER) REGION

#### ► *Restructuring Activities*

**Florida Power and Light (FPL) will build the largest wind power purchase agreement in Oklahoma, a 106.5 MW wind farm near Weatherford in Custer County, Oklahoma.** The Weatherford Wind Energy Center will consist of 71 1.5-MW rated turbines on 3,800 acres. Electricity generated for the project will be sold to Public Service Company (PSO) of Oklahoma. This is FPL's second wind purchase in the northwest area of the state; the 102-MW Oklahoma Wind Energy Center began operating in 2003. PSO anticipates a reduction in customer bills because the purchased wind power is cheaper than the natural gas currently used. FPL is waiting for Congress to extend the Federal Wind Production tax credit before beginning construction; the tax credit expired at the end of 2003. (Source: *Associated Press*, June 29, 2004)

## MID-ATLANTIC (FORMERLY PHILADELPHIA) REGION

► *Restructuring Activities*

**Dominion Virginia Power and American Electric Power, two of Virginia's largest electric utilities, plan to turn over their transmission wires to a regional by this fall.** In accordance with the law, the utilities are required to join a regional transmission system by January 1. The utilities will join the Pennsylvania-based PJM Interconnection, also the largest electricity grid and electricity market in the country. Increased grid security and reliability will generate savings for consumers. Virginia Power projects savings of \$255 million to \$464 million for consumers by the end of the state's capped electric rate in 2011. (Source: *Richmond Times-Dispatch* (Virginia), June 30, 2004)

## WESTERN (FORMERLY SEATTLE) REGION

► *Public Benefits*

**In early July, the Pacific Gas and Electric Company (PG&E) announced that the company has closed for the year, PG&E's 2004 residential rebate program due to the overall all success of the 2004 cycle.** To date, the company has received 60,000 applications for rebates covering 30 residential product lines, including large appliances such as clothes and dishwashers; refrigerator recycling; lighting equipment; and air conditioners as well as high performance, dual pane windows; and pool pumps. Two product categories, lighting and refrigerator recycling will remain open for additional rebates. The California Energy Commission (CEC) authorized a residential rebate program of \$10 million and PG&E has or is processing rebating applications totaling \$10.25 million. PG&E has asked CEC to approve the shifting of funds from other programs to fund the surplus of applications; the request is now pending before the commission.

**The Los Angeles Department of Water and Power reported in early July that due to the success of the agency's commercial and residential rebate programs, the two programs have been extended.** The Consumer Rebate Program and the Efficiency LA programs received approval for the Board of Water and Power Commissioners to continue to operate between July 1, 2004 and June 30, 2005. The programs offer rebates on a range of EnergyStar® residential products and commercial lighting and heating, ventilating and air conditioning products.

► *Restructuring Activities*

**Mountain View Power, Inc. is constructing a 162-MW natural gas-fired power plant in Mountain Home, Idaho.** Once completed in spring of 2005, the Bennett Mountain Power Plant will be turned over to Idaho Power who will own and operate the plant. A Siemens Westinghouse 501FD combustion turbine generator and ancillary equipment will generate electricity. This will be the second natural gas-fired power plant in Idaho, with the first plant, a 90-MW Danskin Power Plant, located north of Mountain Home in the Evander Andrews Power Complex. (Source: *Mountain Home News*, June 30, 2004)

**San Diego Gas & Electric (SDGE) is issuing a Request for Offers in order to expand its renewable energy resources.** As part of a ten-year plan, SDGE wants to buy or generate 20 percent of its total electricity consumption from renewable resources including wind, biomass, landfill gas, geothermal or solar energy. Currently, six percent of the utility's energy is generated by renewable sources meeting California's Renewable Portfolio Standard. SDGE's

proposed plan will increase the use of renewable energy faster than the California law requiring regulated utilities to obtain 20 percent of their power from renewables by 2017. The utility is considering construction of two high voltage lines from a generator proposed in Lake Elsinore into Riverside County or from Imperial Valley into San Diego County in order to help meet the growing electricity needs of the San Diego area. (Source: *North County Times*, July 12, 2004; *Solar Access.com*, July 19, 2004)

[Back to Table of Contents](#)

## PRIVATE SECTOR

### SOUTHEAST (FORMERLY ATLANTA) REGION

*No news of interest to report.*

### NORTHEAST (FORMERLY BOSTON) REGION

*No news of interest to report.*

### CENTRAL (FORMERLY CHICAGO) REGION

*No news of interest to report.*

### MIDWEST (FORMERLY DENVER) REGION

**Ohio Giant Eagle, Inc., a Pittsburgh-based grocery store chain, hopes the company's new store in Northeast Ohio will be the first grocery store to earn a Leadership in Energy and Environmental Design (LEED) certification.** The only other green building in Ohio is the Federal Courthouse in Youngstown. The Giant Eagle store is expected to be 30 percent more efficient than the standard grocery store with fresh air, non toxic detergents for cleaning, sunlight, and construction with recycled materials. (Source: *The Philadelphia Inquirer*, July 5, 2004)

### MID-ATLANTIC (FORMERLY PHILADELPHIA) REGION

**Mesa Environmental Sciences has completed two photovoltaic installations in Pennsylvania vineyards.** The French Creek Ridge Vineyards, Warwick Township, Pennsylvania, installed a 4.8-kW solar electric system in its garden area. The vineyard's solar array is connected to Metropolitan Edison's grid. The array will produce 58 percent of last year's electricity at the winery at a rate no less than 6,700 kwh/year. PECO's service territory provides grants for solar projects within their service territory. In Chester County, Star Gazers winery has established a 5-kW system. (Source: *IREC/MSRI Enewsletter*, July 2, 2004)

### WESTERN (FORMERLY SEATTLE) REGION

**A Partners LLC, a Fresno, California, real estate firm has installed a 600kWe combined heat and power fuel cell project with help from LOGANEnergy.** The fuel cell power block, designed by LOGANEnergy, harnesses three PC25C power plants manufactured by UTC Power. The project was designed to enhance energy security by providing both base load

service to the office building and emergency power to support critical electric loads. In addition to power generation, the three fuel cells provide 2.7 MMBtu/h of clean and efficient thermal energy to the building's HVAC loads. A 100-ton Nishiyodo Adsorption Chiller cools the first three floors of the building, drawing from 1.35 MMBtu/h waste heat from the fuel cells' high-grade heat exchangers. The same thermal loop doubles as the heat source for all of the facility's domestic hot water. During the heating months, the fuel cells' low-grade heat exchangers provide 1.35 MMBtu/h waste heat to supplement heat pumps located throughout the building. Sam Logan of LOGANEnergy described the project as "very important for California and the nation. It's a window on a sustainable energy future employing transitional technology that delivers many of those benefits today: clean, distributed power, low emissions, and energy efficiency that challenges the notion of foreign dependencies. Our team views this installation as a prototype for hundreds of similar applications across California and the U.S." (Source: LOGANEnergy Press Release, June 18, 2004)

**Temescal Place, a new housing project in Oakland, California, is equipped with the city's largest solar electric system.** The photovoltaic panels, which nearly cover the 25-unit loft and town house development, will generate about 53,000 kW per year, resulting in an energy cost savings of \$7,500 annually for residents. When the system does not generate enough electricity, the local utility, Pacific Gas & Electric (PGE), will provide power. PG&E's Self Generation Incentive Program (SGIP) provided a \$135,000 rebate for the \$270,000 system through the California Energy Commission's Emerging Renewables Rebate program. As of July 1, 2004, the program provides funding for systems smaller than 30-kW at a rate of \$3.20 per watt, adjusting to \$3.00 per watt. Oakland Mayor and former California Governor Jerry Brown (D) praised Temescal Place, "The City of Oakland has adopted a goal to have 100 percent of our electricity generated by renewable sources over the next 25 years. Developments like Temescal Place are really crucial to this." Cooperative Community Energy installed the solar electric system. (Source: *Oakland Tribune*, June 17, 2004; Cooperative Community Energy press release, June 18, 2004)

[Back to Table of Contents](#)

## MEETINGS, CONFERENCES, AND TRAINING WORKSHOPS

- Refer to [Appendix C](#) – New Technologies
- Refer to [Appendix D](#) – Calendar of Upcoming Events.

### MULTIPLE REGIONS

**The Association of Energy Engineers currently offers three online seminars of interest to readers.** The Sustainable Green Buildings: Introduction to LEED for New Construction and Existing Buildings (August 10) seminar covers eight topics: fundamentals of green buildings, economics and benefits of green construction or retrofits, identification strategies to determine whether a building or site is suitable for sustainable green design, the role of the U.S. Green Building Council and its LEED Green Building Rating System, LEED for New Construction (NC) rating system, LEED for Existing Buildings (EB), building certification process, and implementation strategies to build or retrofit a green building. The Performance Contracting seminar (August 16) covers key concepts on performance contracting, risk management



guidelines, measurement and verification procedures, investment grade audits, key contract components, negotiation strategies, and ESCO selection, marketing, and proposal strategies. The Introduction to Power Quality seminar (August 30) includes voltage sags, oscillary transients, ASD (adjustable speed drive) tripping problems, momentary interruptions and impulses, harmonics issues, IEEE 519 (Institute of Electrical Engineers' Standard Practices and Requirements for Harmonic Control in Electrical Power Systems) and its applications, and relevant case studies. For more information, go to [www.aeecenter.org/training](http://www.aeecenter.org/training) or [www.aeecenter.org/realtime](http://www.aeecenter.org/realtime).

#### CENTRAL (FORMERLY DENVER)

**The Energy and Environmental Building Association is offering a training program, Houses That Work in Oklahoma City, Oklahoma, on July 27 and in Grand Junction, Colorado on October 2.** Training covers high-performance homes and features regional case studies demonstrating an increase of 50 percent in energy efficiency with minimal increase in cost. For more information, visit [www.eeba.org/events/buildingamerica/default.htm](http://www.eeba.org/events/buildingamerica/default.htm).

**AIA-San Antonio and the City Public Service are sponsoring Green Building/Hybrid Source Expo and Workshop in San Antonio, Texas, on October 1-2.** The conference will cover renewable energy, alternative building materials, water saving systems, and hybrid and fuel cell vehicles. For more information, visit [www.greenconnexion.com/expo/default.htm](http://www.greenconnexion.com/expo/default.htm).

#### MID-ATLANTIC (FORMERLY PHILADELPHIA)

**The Defense Energy Support Center is holding a Worldwide Energy Conference in Arlington, Virginia, on September 27-30.** The conference will include the participation of over 750 Department of Defense and other Federal organizations. The conference will include an exhibition; 50 educational workshops; and panel discussions on energy programs, products, services and challenges. For more information, visit [www.desc.dla.mil](http://www.desc.dla.mil).

#### MIDWEST (FORMERLY CHICAGO)

**The Energy and Environmental Building Association is offering a training program, Houses That Work in Michigan, on three dates; Detroit on September 14, Grand Rapids on September 15, and Traverse City on September 16.** Training covers high-performance homes and features regional case studies demonstrating an increase of 50 percent in energy efficiency with minimal increase in cost. For more information, visit [www.eeba.org/events/buildingamerica/default.htm](http://www.eeba.org/events/buildingamerica/default.htm).

#### NORTHEAST (FORMERLY BOSTON)

**Reminder ? The U.S. Department of Energy, in concert with the Department of Defense and the General Services Administration is sponsoring *Energy 2004* in Rochester, New York, on August 8-11.** *Energy 2004* offers a myriad of networking opportunities with energy professionals from throughout the U.S. and provides information on the latest strategies and products for saving energy in buildings. Among the many features of the conference, there will be an exhibit hall, the Federal Energy Management Advisory Committee's (FEMAC) public meeting, and a track on Energy Security in Federal facilities. The exhibit hall will take place from August 8-10 and will feature technologies and services on transportation systems, energy savings for buildings, renewable and energy efficient products, water saving



technologies, and sustainable design. Over one hundred exhibitors will participate at the Energy 2004 exhibition hall. For a complete list of the exhibitors, visit [www.energy2004.ee.doe.gov/exhibitinfo.htm](http://www.energy2004.ee.doe.gov/exhibitinfo.htm). FEMAC's public meeting will take place on August 9 and cover an update on FEMAC working groups, a discussion on FEMAC priorities, and an open forum with the public to seek input and feedback on FEMAC issues. For more information on the public meeting, visit

<http://a257.g.akamaitech.net/7/257/2422/06jun20041800/edocket.access.gpo.gov/2004/04-16445.htm>.

On August 9 the Energy Security panel will hold a brown bag lunch to discuss energy security issues in an informal session with *Energy 2004* participants. Be sure to check on these and the many other exciting events offered this year at [www.energy2004.ee.doe.gov](http://www.energy2004.ee.doe.gov).

#### SOUTHEAST (FORMERLY ATLANTA)

*No new events of interest to report.*

#### WESTERN (FORMERLY SEATTLE)

**The Energy and Environmental Building Association is offering a training program, Houses That Work in Las Vegas, Nevada on August 18 and in Stockton, California, on December 3.** Training covers high-performance homes and features regional case studies demonstrating an increase of 50 percent in energy efficiency with minimal increase in cost. For more information, visit [www.eeba.org/events/buildingamerica/default.htm](http://www.eeba.org/events/buildingamerica/default.htm).

**U.S. Green Building Council is holding a Greenbuild International Conference and Expo in Portland, Oregon, on November 10-12.** The conference will highlight educational programs, exhibitors, Leadership in Energy and Environmental Design (LEED) workshops, green building tours, keynote speakers, and USGBC awards. For more information, visit [www.greenbuildexpo.com](http://www.greenbuildexpo.com).

[Back to Table of Contents](#)

## STUDIES, REPORTS, AND ANALYSES

#### ENERGY AND WATER CONSERVATION

##### ***Energy Management and Investor Returns: The Real Estate Sector, June 2004***

The report examines energy management in the commercial property sector, citing a 34 percent improvement in financial and stock market performance during the past two years by leaders in the energy management area. Improved performance in leading energy management real estate is attributed to successful energy management with added revenue from reduced energy costs, higher property value, appeal to socially responsible consumers, and an enhanced reputation for the companies. The report also includes a section on energy management benefits in the hotel sector. The report is available at

[www.getf.org/file/toolmanager/CustomO16C45F53071.pdf](http://www.getf.org/file/toolmanager/CustomO16C45F53071.pdf).

## SOLAR AND RENEWABLE ENERGY

***Small Wind Electric Systems: A Consumer's Guide*, Department of Energy and National Renewable Energy Laboratory, July 2004**

This updated guide provides consumers with information on small wind systems for the home or businesses. Topics include increasing energy efficiency, choosing the correct turbine size, identifying the parts of a wind electric system, determining wind resource availability, selecting the best site for a turbine, connecting to the utility grid, and reaching energy independence through wind. Download the report from [www.nrel.gov/docs/fy04osti/35893.pdf](http://www.nrel.gov/docs/fy04osti/35893.pdf).

[Back to Table of Contents](#)

## APPENDIX A

### STATUS OF FY 2005 APPROPRIATIONS BILLS

- Red text highlights developments since the last issue of *INSIGHTS*.

(In Billions)

#### HOUSE

#### SENATE

Jurisdiction/ FY 2004 Budget Request (In Billions)	302(b) Discretionary Allocations/ Approved Funding Level (In Billions)	Bill No.	Full Cmte. Mark Up	Floor Vote	Vote on Conf Rpt.	302(b) Discretionary Allocations/ Approved Funding Level (In Billions)	Bill No	Full Cmte. Mark Up	Floor Vote	Vote on Conf. Rpt.
<b>Agriculture</b> \$16.569	\$16.78 \$16.77	H.R. 4766	6/23	7/13		TBD				
<b>Commerce</b> \$39.553	\$39.78 \$39.8	H.R. 4754	6/23	7/8		TBD				
<b>Defense</b> \$392.585	\$392.14 \$416.9	H.R. 4613	6/16	6/22		TBD \$416.2	S. 2559	6/22	6/24	
<b>Energy and Water Development</b> \$27.938	\$27.99 \$28.0	H.R. 4614	6/16	6/25		TBD				
<b>Homeland Security</b> \$31.104	\$32 \$32	H.R. 4567	6/9	6/18		TBD \$33.1 \$32	S. 2537	6/17		
<b>Interior</b> \$19.982	\$19.73 \$19.5	H.R. 4568	6/9	6/17		TBD				
<b>Labor/HHS</b> \$142.050	\$142.05		7/14			TBD				
<b>Military Construction</b> \$9.553	\$9.553 \$10.003	H.R. 4837	7/9			TBD \$10.003	S. 2674	7/15		
<b>Transportation and Treasury</b> \$25.714	\$25.714					TBD				
<b>VA/HUD</b> \$92.129	\$92.129 \$92.9	H.R. 4423 (VA) H.R. 4421 (EPA)				TBD				

[Back to Table of Contents](#)

**APPENDIX B**  
**FY 2005 APPROPRIATIONS COVERED TO DATE**  
**(Summary of Provisions of Interest)**

***Agriculture, Rural Development and Food and Drug Administration***  
***(page 19)***

***Commerce, Justice, State, and the Judiciary***  
***(page 20)***

***Defense***  
***(page 21)***

***Energy and Water Development***  
***(page 22)***

***Homeland Security***  
***(pages 23)***

***Interior and Related Agencies***  
***(page 24)***

***Military Construction***  
***(page 26)***

## AGRICULTURE, RURAL DEVELOPMENT, AND FOOD AND DRUG ADMINISTRATION

KEY PROGRAM ACTIVITY	HOUSE BILL  <i>H.R. (unnumbered)</i> <b>\$16.77 Billion</b>  (Passed the House on 7/13)	SENATE BILL  S. ____  \$ ____	BUDGET REQUEST (Discretionary Funding)  <b>\$16.569 Billion</b>
<b>DEPARTMENT OF AGRICULTURE</b>  <b>Buildings and Facilities and Rental Payments</b>  <b>Animal Plant Health Inspection Service, Building and Facilities</b>  <b>Agriculture Research Service</b>  <b>Renewable Energy Program for Farmers</b>	<b>\$165.883 million</b> (includes \$128.319 million for rental payments and \$2 million for a Strategic Space Plan)  <b>\$4.996 million</b> for buildings and facilities  <b>\$138.566 million</b> for buildings and facilities (includes <b>\$178 million</b> for construction of the Animal Health facility in Ames, IA; also provides <b>\$3 million</b> <b>each</b> for the modernization and construction for research facilities in Peoria, IL; Davis, CA; Salinas, CA; Houma, LA; Geneva, NY; Ithaca, NY; Pullman, WA; and Marshfield, WI)  <b>\$23 million</b> in energy grants and loans to farmers for renewable energy technologies.		<b>Statement Of Administration Policy</b>  Administration supports passage of <i>H.R. 4766</i>
<b>FOOD AND DRUG ADMINISTRATION</b>  <b>Facilities</b>	\$0 funding		

## COMMERCE, JUSTICE, STATE, AND THE JUDICIARY

KEY PROGRAM ACTIVITY	HOUSE BILL  <b>\$39.8 Billion</b>  (Passed the House on July 8)	SENATE BILL  S. ____  \$ ____	BUDGET REQUEST (Discretionary Funding)  \$39.553 Billion
<b>DEPARTMENT OF COMMERCE</b>  <b>National Institutes of Standards and Technologies, Facilities</b>  <b>National Oceanic and Atmospheric Administration, Facilities</b>	<b>\$43.132 million</b> for construction and major renovations at NIST campuses in Boulder, CO and Gaithersburg, MD  <b>Unspecified funding</b> for facilities (committee also directs NOAA to submit within 60 days of enactment of Act, updated long-range construction and renovation facilities plan and corresponding spending plan for FY 2005)		<b>Statement Of Administration Policy</b>  Administration supports passage of <i>H.R. 4754</i>
<b>DEPARTMENT OF JUSTICE</b>  <b>U.S. Marshals Service, Facilities</b>  <b>Federal Bureau of Investigation, Facilities</b>  <b>Bureau of Prisons, Facilities</b>	<b>\$1,371 million</b> for construction  <b>\$10.242 million</b> for construction (includes \$1.242 for recurring construction needs)  <b>\$189 million</b> for construction, modernization, maintenance, a repair of prison and detention facilities		
<b>DEPARTMENT OF STATE</b>  <b>Embassy Security, Construction, and Maintenance</b>	<b>\$1.524 billion</b> (includes \$912.320 million for priority worldwide security upgrades, acquisition, and construction and \$611.680 for non-security related costs) Provides funding for construction of 7 new embassy compounds, 2 annex buildings, 4 USAID building on secure embassy compounds		



## DEFENSE

KEY PROGRAM ACTIVITY	HOUSE BILL <i>H.R. 4613</i> \$416.9 Billion (Passed the House on 6/23)	SENATE BILL <i>S. 2559</i> \$416.2 (Passed the Senate on 6/24)	BUDGET REQUEST (Discretionary Funding) \$392.585 Billion
<p><b>Operations and Maintenance</b></p> <p><b>Pentagon Reservation</b></p> <p><b>Embassy Security, Construction, and Maintenance</b></p> <p><b>Building Protection</b></p>	<p><b>Unspecified funding</b> for Defense facilities</p> <p><b>\$20 Million</b></p> <p><b>Unspecified Funding</b> for domestic and overseas installations that would benefit from window barrier protection.</p>	<p><b>Unspecified funding</b> for Defense facilities (permits the transfer of funds for increasing energy and water efficiency)</p> <p><b>Establishes funding limitations</b></p>	<p><b>Statement Of Administration Policy</b></p> <p>Administration supports passage of <i>H.R. 4613</i></p> <p>Administration supports passage of <i>S. 2559</i></p>

## ENERGY AND WATER DEVELOPMENT

KEY PROGRAM ACTIVITY	HOUSE BILL <i>H.R. 4614</i>  \$28 Billion  (Passed the House on 6/25)	SENATE BILL  S. ____  \$ ____	BUDGET REQUEST (Discretionary Funding)  \$27.938 Billion
<b>ALL AGENCIES UNDER BILL'S JURISDICTION</b>  <b>DEPARTMENT OF ENERGY</b>  <b>Renewable Energy Programs</b>	Directs all agencies to develop five-year budget plans for programs and agencies.  <b>\$343.173 Million</b>  <div style="background-color: yellow;"> <b>\$1,967 Million</b>  <b>Departmental Energy Management</b> </div> <b>\$82.733 Million</b> Solar <b>\$41.6 Million</b> Wind <b>\$95.325 Million</b> Hydropower <b>\$72.596 Million</b> Biomass and Biorefinery Systems R&D <b>\$17 Million</b> Intergovernmental <b>\$20.711 Million</b> Program Direction (includes funding to Improve project management at Golden Field Office)		<b>Statement Of Administration Policy</b>  Administration supports passage of <i>H.R. 4214</i> :  <ul style="list-style-type: none"> <li>- Encourages the House to fund the President's Hydrogen Fuel Initiative – encourages restoration of the House's \$31 million funding cut for fuel cell technologies</li> </ul>
<b>Electricity Transmission and Distribution</b>	<b>\$75.345 Million</b>		

## HOMELAND SECURITY

KEY PROGRAM ACTIVITY	HOUSE BILL  <i>H.R. 4567</i>  \$32 Billion  (Passed the House on 6/18)	SENATE BILL  <i>S. 2357</i>  \$32 Billion  (Passed the Committee on Appropriations on 6/17)	BUDGET REQUEST (Discretionary Funding)  \$31.104 Billion
Headquarters Facility – Consolidation and Co-location of Offices	\$65.081 Million for construction and related activities.	\$65.081 Million for alternation and improvement of facilities and for relocation costs to consolidate headquarters' operations	<b>Statement Of Administration Policy</b>
DHS Facilities (General)		<b>Unspecified Funding</b> Directs DHS to report by 2/1/05, feasibility of establishing separate Homeland Security Pacific Region	Administration supports passage of <i>H.R. 4567</i>  Administration supports passage <i>S. 2357</i>
Bureau of Customs and Border Protection	\$91.718 Million to plan, construct, renovate, equip, and maintain buildings and facilities.	\$91.718 Million to plan, construct, renovate, equip, and maintain buildings and facilities	
Immigration and Customs Service (Air and Marine Interdiction Operations, Maintenance, and Procurement)	\$26.179 Million for construction, renovation, equipment, and maintenance of facilities.	\$26.179 Million for construction, renovation, equipment, and maintenance of facilities	
U.S. Coast Guard (Acquisition, Construction, and Improvements)		<b>Unspecified Funding</b> for shore facilities ( <b>notes that USCG invests in modern structures that are more energy-efficiency</b> )	
U.S. Secret Service		\$3.633 Million for facility upgrades, continue development of Master Plan, and maintain and renovate existing facilities, including Rowley Training Center)	
Federal Law Enforcement Training Center	\$37.917 Million for additional property and facilities, construction, maintenance, improvements, etc.	<b>Unspecified Funding</b> for expansion, maintenance at facility (and minor construction projects at four other buildings)	

## INTERIOR AND RELATED AGENCIES

KEY PROGRAM ACTIVITY	HOUSE BILL <i>H.R. 4568</i>  <b>\$19.5 Billion</b>  (Passed the House on 6/17)	SENATE BILL  S. ____  \$ ____ Billion	BUDGET REQUEST (Discretionary Funding)  <b>\$19.982 Billion</b>
<b>DEPARTMENT OF ENERGY</b>  Energy Conservation	<b>\$656.071 Million</b>  <b>\$17.9 Million Federal Energy Management Program</b>  <b>\$64.884</b> Building Technologies <b>\$62.480 Million</b> Distributed Energy Resources <b>\$84.940 Million</b> Industrial Technologies <b>\$12.680 Million</b> Biomass and Biorefinery Systems <b>\$71 Million</b> Fuel Cells <b>\$167.356 Million</b> Vehicle Technologies <b>\$84.667 Million</b> Intergovernmental <b>\$90.164 Million</b> Program Management		<b>Statement Of Administration Policy</b>  Administration supports passage of <i>H.R. 4568</i>
<b>DEPARTMENT OF THE INTERIOR</b>  U.S. Fish and Wildlife Service	<b>\$48.4 Million</b> for construction, improvement, acquisition or removal of buildings and other facilities.		
National Park Service	<b>\$297.628 Million</b> for construction, improvements, repair, or replacement of physical facilities.  <b>\$94.690 Million</b> for maintenance repair or rehabilitation projects for constructed assets, etc.		

# FEMP MONTHLY UPDATE

<p><b>Smithsonian Institution</b></p> <p><b>National Gallery of Art</b></p> <p><b>JFK Center for the Performing Arts</b></p> <p><b>DEPARTMENT OF AGRICULTURE</b></p> <p><b>U.S. Forest Service</b></p>	<p><b>\$122.9 Million</b> for repair, revitalization, and alteration of facilities and construction</p> <p><b>\$11 Million</b> for repair, restoration, and renovation of buildings, grounds and facilities.</p> <p><b>\$10 Million</b> for construction</p> <p><b>Unspecified Funding</b> for construction, reconstruction, maintenance, and acquisition of buildings and facilities</p>		
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# MILITARY CONSTRUCTION

KEY PROGRAM ACTIVITY	HOUSE BILL  <i>H.R. 4837</i>  \$__ Billion  (Passed House on 7/15)	SENATE BILL  S. ____  \$10.003 Billion  (Passed Committee on Appropriations on 7/15)	BUDGET REQUEST (Discretionary Funding)  \$19.982 Billion
<b>Military Construction</b> (to remain available through 9/30/09)	<b>\$1.863 Billion</b> for the Army <b>\$1.081 Billion</b> Navy and Marine Corps <b>\$797.865 Million</b> for the Air Force <b>\$718.837 Million</b> for Defense-wide <b>\$394.1 Million</b> Army National Guard <b>\$180.533 Million</b> for the Air National Guard <b>\$116.421 Million</b> for the Army Reserve <b>\$20.955 Million</b> for the Naval Reserve <b>\$111.725 Million</b> for the Air Force Reserve	<b>\$1.977 Billion</b> for the Army <b>\$1.016 Billion</b> Navy and Marine Corps <b>\$841.131 Million</b> for the Air Force <b>\$696.491 Million</b> for Defense-wide <b>\$381.765 Million</b> Army National Guard <b>\$231.083 Million</b> for the Air National Guard <b>\$66.325 Million</b> for the Army Reserve <b>\$33.375 Million</b> for the Naval Reserve <b>\$101.373 Million</b> for the Air Force Reserve	
<b>Family Housing</b> (construction funds to remain available through 9/30/09)	<b>\$636.099 Million</b> for Army Housing Construction <b>\$926.507 Million</b> for Army O&M <b>\$139.107 Million</b> Navy and Marine Corps Construction <b>\$696.304 Million</b> for Navy and Marine Corps O&M <b>\$846.959 Million</b> for Air Force Construction <b>\$854.666 Million</b> for Air Force O&M <b>\$49,000</b> for Defense wide construction <b>\$49.575 Million</b> for Defense-wide O&M	<b>\$636.099 Million</b> for Army Housing Construction <b>\$928.907 Million</b> for Army O&M <b>\$139.107 Million</b> Navy and Marine Corps Construction <b>\$704.504 Million</b> for Navy and Marine Corps O&M <b>\$846.959 Million</b> for Air Force Construction <b>\$856.114 Million</b> for Air Force O&M <b>\$49,000</b> for Defense wide construction <b>\$49.575 Million</b> for Defense-wide O&M	
<b>Military Housing Privatization Initiative (MPHI)</b>	<b>Recommends raising or eliminating the budgetary cap</b> on MHPI and addressing scoring methodology changes		



<p><b>Use of Sustainable Design Standards by DOD</b></p>	<p>proposed by the Congressional Budget Office.</p> <p><b>Encourages DOD to use sustainable building design and construction methods;</b> House expressed concern about rating systems used by DOD to assess standards of sustainable design and construction that may unfairly discriminate against domestic producers of wood products</p>		
<p><b>Water-Saving Technology</b></p>	<p><b>Encourages DOD to (continue to) use water-saving technologies</b> in the construction of new and improvement of existing DOD facilities</p>		
<p><b>Energy Conservation Investment Program (ECIP)</b></p>		<p><b>\$60 Million</b> House maintains strong interest in renewable energy resources and commends the services for their efforts and the receipt of a Presidential Award for Federal Energy Management.</p>	
<p><b>Barracks Construction</b></p>		<p><b>\$1,015.1 Billion</b> for the construction of Military Barracks</p>	

[Back to Table of Contents](#)

**APPENDIX C – NEW TECHNOLOGIES**

For informational purposes only. Listing does not imply endorsement.

TECHNOLOGY	MANUFACTURER	MANUFACTURERS CLAIM	CONTACT
<b>HVAC</b>			
<b>Model 6504 Intelligent Zoned Control Comfort Panel</b>	Aprilaire	Provides global HVAC control of a home and executes self-diagnostic checks. Controls thermostat and activates electronic air cleaner (EAC). Communicates outdoor temperature and indoor relative humidity. Extends blower runtime, controls fresh air ventilation, and eliminates the need for additional humidifier.	<a href="http://www.aprilairecontractor.com">www.aprilairecontractor.com</a>
<b>Talking Thermostat</b>	York UPG	Provides homeowners a step-by-step guide on programming heating-cooling systems. Talk feature informs homeowners if service is needed, provides the name and contact information of the dealer for service of the system, and reminds homeowners when to clean, replace a filter, or perform annual maintenances. Shows current temperature, heating or cooling modes, and offers time-temperature settings for different days.	<a href="http://www.yorkupg.com">www.yorkupg.com</a>
<b>Reflective Coatings</b>	PPG Industries	New line of reflective coatings meets ENERGYSTAR® requirements for roof products to reduce amount of heat absorbed by a structure. Specially formulated using infrared reflective pigments. Lowers energy consumption and building cooling costs. Reduces metal expansion/contraction which helps to extend the duration of the roof.	<a href="http://corporate.ppg.com/ppg/corporate/default.htm">http://corporate.ppg.com/ppg/corporate/default.htm</a>

## LIGHTING

<b>3-W Cold Cathode Lamps</b>	Technical Consumer Products, Inc.	Provides 140 lm, lasts for 25,000 hr, contains excellent color consistency, and creates a soft-strike, low-volt starting method to extend bulb life by 25%. Prevents glass leaks and bulb failure due to special cathode mounting process.	<a href="http://www.tcpi.com">www.tcpi.com</a>
<b>Micro T5 strips</b>	Day-Brite Lighting	Utilizes small size, high output, and maximum efficiency of T5 lamps for applications in cove, perimeter, merchandise, and wall wash illumination. Low profile cross section promotes sleek design and illumination of compact spaces.	<a href="http://www.dcolighting.com/dco">www.dcolighting.com/dco</a>
<b>Recessed CFL Ceiling Downlights</b>	Prescolite	Downlights and wall washers for high-output, energy-efficient, dual quad-tube 50 and 70-W compact fluorescent lamps in horizontal or vertical configurations.	<a href="http://www.prescolite.com/home.nsf/HomePageFrm?openform">www.prescolite.com/home.nsf/HomePageFrm?openform</a>
<b>Daylight System</b>	LightLouver	Utilizes passive optical design to redirect daylight and eliminate direct sunlight penetration onto work surfaces. Provides uniform ambient lighting, reduces lighting and cooling energy costs, and improves occupant comfort.	<a href="http://www.archenergy.com/products/lightlouver/">www.archenergy.com/products/lightlouver/</a>
<b>Micro-Brite R20</b>	LITETRONICS	Cold-cathode fluorescent lamp provides 90% energy savings and increased durability compared to incandescent. Suitable for indoor and outdoor applications.	<a href="http://www.litetronics.com">www.litetronics.com</a>
<b>T8 Fluorescent Lamp</b>	Philips Lighting Co.	4 foot 25-watt ALTO Energy Advantage fluorescent lamp. Allows users to replace 32-watt T8 lamps for savings of more than 20 percent. Features energy advantages including increased durability and low mercury content.	<a href="http://www.lighting.philips.com">www.lighting.philips.com</a>
<b>Compact Fluorescents</b>	GE CFL	New line of products include 15/25/32-watt 3-way spiral, 15-watt R30, 26-watt R40 dimming reflectors, and five smaller mini Biax and mini A-line lamps. Cuts energy costs by as much as 77%.	<a href="http://www.gelighting.com/na/home/energy.html">www.gelighting.com/na/home/energy.html</a>

## ENERGY MANAGEMENT TOOLS

<b>Green Search</b>	Bluebolt	The online feature enables users to find interior materials meeting specific environmental specifications. Attributes include product performance against LEED indoor environmental quality, materials, resources credits, environmentally preferable product certifications, and other industry-accepted standards.	<a href="http://www.tectonicstudio.com">www.tectonicstudio.com</a>
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## WATER EFFICIENCY

<b>AutoFaucet</b>	Technical Concepts	Monitors water flow resulting in 70% water savings.	<a href="http://www.technicalconcepts.com">www.technicalconcepts.com</a>
<b>EcoPower Line</b>	TOTO USA Inc.	Self-generating hydropower faucets utilizes water to maintain its rechargeable battery. Employs infrared sensor that releases water when hands are placed on the spout and shuts off when the hands are removed. Meets the low consumption requirements by using less than 0.25 gallons per cycle.	<a href="http://www.totousa.com/toto/totohome.asp">www.totousa.com/toto/totohome.asp</a>

## MISCELLANEOUS

<b>Fyrizer Combustion and Emission Analyzer</b>	Bacharach Inc.	Hand-set analyzer intended for commercial and industrial use. Determines carbon monoxide (CO) safety, combustion efficiency, and emissions compliance. Measures and displays readings for O2, CO, NO, NO2, NOx, and SO2 to user-selected O2 reference. Stores up to 890 records and downloads information to a printer as well.	<a href="http://www.bacharach-inc.com">www.bacharach-inc.com</a>
<b>Recycled Wall Guards</b>	InPro Corp.	Corner guards and handrails manufactured from 100 percent recycled high-density polyethylene (HDPE) and Forest Stewardship Council (FSC) certified wood.	<a href="http://www.inprocorp.com">www.inprocorp.com</a>
<b>FormaBond</b>	Centria	Single source aluminum composite wall system produced from 80 % recycled material.	<a href="http://www.centria.com">www.centria.com</a>
<b>Noramant 925 Strada</b>	Freudenberg Building Systems Inc.	PVC-free environmentally compatible commercial rubber floor coverings. Does not require waxing or sealing contributing to healthier indoor air and lower maintenance costs.	<a href="http://www.norarubber.com">www.norarubber.com</a>

## F E M P   M O N T H L Y   U P D A T E

<b>Sun-Link</b>	Eastwood Energy	PV module mounting system for flat roofs with four tilt angles 5, 10, 15, or 20 degrees to maximize energy production at the site. Lightweight, conforms to uneven roof surfaces, offers anchoring and ballasting options, performs in winds up to 120 mph, and is designed and manufactured to ISO 9001-2000 standards.	<a href="http://www.eastwoodenergy.com">www.eastwoodenergy.com</a>
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[Back to Table of Contents](#)

## APPENDIX D

### MEETINGS, CONFERENCES, AND OTHER EVENTS

**NOTE:** New events are highlighted in **blue**.  
DOE-sponsored events are highlighted in **green**.

**FEMP Training Calendar:** [www.eere.energy.gov/femp/newsevents/events.cfm](http://www.eere.energy.gov/femp/newsevents/events.cfm)

#### GENERAL ANNOUNCEMENTS

DATE	EVENT	SPONSOR
July 21, 2004	3D Load Profiling Using Interval Meter Data	Association of Energy Engineers
July 26, 2004	Facilities Management: Essentials & Critical Strategies for Success	Association of Energy Engineers
July 26, 2004	Motors: Operation, Efficiency & Economics	Association of Energy Engineers
August 2, 2004	Strategic Energy Planning	Association of Energy Engineers
August 5, 2004	Fundamentals of Lighting Efficiency	Association of Energy Engineers
<b>August 10, 2004</b>	<b>Sustainable Green Buildings: Introduction to LEED for New Construction and Existing Buildings</b>	<b>Association of Energy Engineers</b>
August 16, 2004	Effective Energy Management Program Development	Association of Energy Engineers
<b>August 16, 2004</b>	<b>Performance Contracting</b>	<b>Association of Energy Engineers</b>
<b>August 30, 2004</b>	<b>Introduction to Power Quality</b>	<b>Association of Energy Engineers</b>

#### CENTRAL (Formerly Denver)

DATE	EVENT	SPONSOR
<b>July 27, 2004</b>	<b>Houses that Work Oklahoma City, OK</b>	<b>Energy and Environmental Building Association</b>



## F E M P M O N T H L Y U P D A T E

DATE	EVENT	SPONSOR
<b>August 28-September 3, 2004</b>	<b>World Renewable Energy Congress VIII and Expo Denver, CO</b>	<b>Department of Energy, American Council on Renewable Energy, Xcel Energy, World Renewable Energy Network and others</b>
<b>September 15-16, 2004</b>	<b>Hands-On Distributed Energy Resources Training Albuquerque, NM</b>	<b>Department of Energy's Federal Energy Management Program</b>
September 22-24, 2004	27 <sup>th</sup> World Energy Engineering Congress & High Performance Facilities Expo Austin, Texas	Association of Energy Engineers and Austin Energy
<b>October 2, 2004</b>	<b>Houses that Work Grand Junction, CO</b>	<b>Energy and Environmental Building Association</b>
October 5, 2004	Anatomy of a Green Lease Workshop Houston, TX	The Corporate Realty, Design, & Management Institute
October 27, 2004	Anatomy of a Green Lease Workshop Denver, CO	The Corporate Realty, Design, & Management Institute

### MID-ATLANTIC (Formerly Philadelphia)

DATE	EVENT	SPONSOR
<b>July 19-22, 2004</b>	<b>National Workshop on State Building Energy Codes Philadelphia, PA</b>	<b>Department of Energy's Building Energy Codes Program</b>
<b>July 20-21, 2004</b>	<b>Introduction to ESPC Washington, D.C.</b>	<b>Department of Energy's Federal Energy Management Program</b>
<b>July 21, 2004</b>	<b>Measurement &amp; Verification for Super ESPC Projects</b>	<b>Department of Energy's Federal Energy Management Program</b>
<b>September 8, 2004</b>	<b>U.S. DOE Mid-Atlantic Hydrogen Learning Workshop Annapolis, MD</b>	<b>Department of Energy's Philadelphia Regional Office</b>
September 13, 2004	Anatomy of a Green Lease Workshop Washington, D.C.	The Corporate Realty, Design, & Management Institute

## F E M P   M O N T H L Y   U P D A T E

DATE	EVENT	SPONSOR
September 15, 2004	Anatomy of a Green Lease Workshop Washington, D.C.	The Corporate Realty, Design, & Management Institute
September 16-18, 2004	Bridging the Gap: Sustainable Environment Philadelphia, PA	University of Pennsylvania, Wharton School
<b>September 27-30, 2004</b>	<b>Worldwide Energy Conference Arlington, VA</b>	<b>Defense Energy Support Center</b>
<b>October 1-2, 2004</b>	<b>Green Building/Hybrid Source Expo and Workshop San Antonio, TX</b>	<b>AIA San Antonio and the City of Public Service</b>
<b>October 28, 2004</b>	<b>Federal Energy and Water Management Awards Washington D.C.</b>	<b>Department of Energy's Federal Energy Management Program</b>

### MIDWEST (Formerly Chicago)

DATE	EVENT	SPONSOR
July 20-23, 2004	Engineering Green Buildings Cleveland, OH	HPAC Engineering
July 22-24, 2004	BELL 2004: Building a Sustainable City through Sustainable Enterprise	Stuart Graduate School of Business
July 26, 2004	Anatomy of a Green Lease Workshop Kansas City, MO	The Corporate Realty, Design, & Management Institute
<b>July 26-27, 2004</b>	<b>FEMP Building Energy and Water Conservation Workshop Cleveland, OH</b>	<b>Department of Energy's Federal Energy Management Program</b>
<b>July 28-29, 2004</b>	<b>FEMP Building Energy and Water Conservation Workshop Minneapolis, MN</b>	<b>Department of Energy's Federal Energy Management Program</b>
July 28, 2004	Anatomy of a Green Lease Workshop Minneapolis, MN	The Corporate Realty, Design, & Management Institute
<b>September 14, 2004</b>	<b>Houses that Work Detroit, Michigan</b>	<b>Energy and Environmental Building Association</b>

## F E M P   M O N T H L Y   U P D A T E

DATE	EVENT	SPONSOR
<b>September 15, 2004</b>	<b>Houses that Work Grand Rapids, Michigan</b>	<b>Energy and Environmental Building Association</b>
<b>September 16, 2004</b>	<b>Houses that Work Traverse City, Michigan</b>	<b>Energy and Environmental Building Association</b>
<b>October 4, 2004</b>	<b>Labs21 High Performance, Low-Energy Design Course St. Louis, MO</b>	<b>Department of Energy and the Environmental Protection Agency</b>

### NORTHEAST (Formerly Boston)

DATE	EVENT	SPONSOR
July 20-22, 2004	FedFleet 2004: The Road to the Future is Now New York, NY	General Services Administration and the Federal Fleet Policy Council
<b>August 4-6, 2004</b>	<b>Energy 2004 Pre-Workshop-Fundamentals of Measurement and Verification: Applying the New IPMVP Rochester, NY</b>	<b>Department of Energy, Department of Defense, and General Services Administration</b>
<b>August 4-6, 2004</b>	<b>Energy 2004 Pre-Workshop-Skills Update III for Certified Energy Managers Rochester, NY</b>	<b>Department of Energy, Department of Defense, and General Services Administration</b>
<b>August 6-7, 2004</b>	<b>Energy 2004 Pre-Workshop-Advanced Lighting Applications: Taking Your Lighting Systems to the Next Level Rochester, NY</b>	<b>Department of Energy, Department of Defense, and General Services Administration</b>
<b>August 7, 2004</b>	<b>Energy 2004 Pre-Workshop-Cost Effective Commercial and Industrial Solar Applications Rochester, NY</b>	<b>Department of Energy, Department of Defense, and General Services Administration</b>
<b>August 8, 2004</b>	<b>Energy 2004 Pre-Workshop-Training for Vendors: Doing Business with the Federal Government Rochester, NY</b>	<b>Department of Energy, Department of Defense, and General Services Administration</b>

# F E M P M O N T H L Y U P D A T E

DATE	EVENT	SPONSOR
August 8, 2004	Energy 2004 Pre-Workshop- Strategic Energy Planning Workshop Rochester, NY	Department of Energy, Department of Defense, and General Services Administration
August 8, 2004	Energy 2004 Pre-Workshop- Introduction to Distributed Generation and Combined Heat and Power for Federal Energy Professionals Rochester, NY	Department of Energy, Department of Defense, and General Services Administration
August 8-11, 2004	Energy 2004 Rochester, NY	Department of Energy, Department of Defense, and General Services Administration
August 9, 2004	FEMAC Public Meeting Rochester, NY	Department of Energy's Federal Energy Management Program
August 11, 2004	Energy 2004 Post-Workshop- Biomass and Alternative Methane Fuels (BAMF) Baseball Rochester, NY	Department of Energy, Department of Defense, and General Services Administration
August 12, 2004	Energy 2004 Post-Workshop- Continuous Commissioning® – Your Best Energy Efficiency Investment After People Rochester, NY	Department of Energy, Department of Defense, and General Services Administration
August 12, 2004	Energy 2004 Post-Workshop- LEED Intermediate Training Rochester, NY	Department of Energy, Department of Defense, and General Services Administration
August 12, 2004	Energy 2004 Post-Workshop- DOE BestPractices Steam End User Training Rochester, NY	Department of Energy, Department of Defense, and General Services Administration
August 12, 2004	Energy 2004 Post-Workshop- Control Systems Rochester, NY	Department of Energy, Department of Defense, and General Services Administration
August 12, 2004	Energy 2004 Post-Workshop- Energy Project Financing Rochester, NY	Department of Energy, Department of Defense, and General Services Administration

## F E M P   M O N T H L Y   U P D A T E

DATE	EVENT	SPONSOR
<b>August 12, 2004</b>	<b>Energy 2004 Post-Workshop-Resource Efficiency Management (REM) Rochester, NY</b>	<b>Department of Energy, Department of Defense, and General Services Administration</b>
September 9, 2004	Anatomy of a Green Lease Workshop Boston, MA	The Corporate Realty, Design, & Management Institute

### SOUTHEAST (Formerly Atlanta)

DATE	EVENT	SPONSOR
September 4-8, 2004	Sixth Symposium of the International Urban Planning and Environmental Association Louisville, KY	International Urban Planning and Environment Association and the Center for Environmental Policy and Management
September 16, 2004	Anatomy of a Green Lease Workshop Atlanta, GA	The Corporate Realty, Design, & Management Institute

### WESTERN REGIONAL (Formerly Seattle)

DATE	EVENT	SPONSOR
June 27-30, 2004	District Energy/CHP 2004: IDEA's 95 <sup>th</sup> Annual Conference and Trade Show Seattle, WA	International District Energy Association & Seattle Steam Company
<b>July 9-14, 2004</b>	<b>SOLAR 2004 Portland, OR</b>	<b>Department of Energy, Energy Trust of Oregon, and Eugene Water and Electric Board</b>
July 23-25, 2004	SolWest Renewable Energy Fair John Day, OR	SolWest
August 4 -7, 2004	Southwest Sustainability Expo Flagstaff, AZ	American Solar Energy Society, Arizona Department of Commerce, ETA Engineering and others
<b>August 18, 2004</b>	<b>Houses that Work Las Vegas, NV</b>	<b>Energy and Environmental Building Association</b>

## F E M P   M O N T H L Y   U P D A T E

DATE	EVENT	SPONSOR
September 1-3, 2004	Deconstruction and Building Reuse Conference Oakland, CA	Used Building Materials Association, Environmental Protection Agency and Alameda County Waste Management Authority
<b>September 28-29, 2004</b>	<b>Energizing the Northwest, Today and Tomorrow Portland, OR</b>	<b>Department of Energy's Bonneville Power Administration</b>
October 7, 2004	Anatomy of a Green Lease Workshop Phoenix, AZ	The Corporate Realty, Design, & Management Institute
October 11, 2004	Anatomy of a Green Lease Workshop San Francisco, CA	The Corporate Realty, Design, & Management Institute
October 14, 2004	Anatomy of a Green Lease Workshop Los Angeles, CA	The Corporate Realty, Design, & Management Institute
<b>October 14-15, 2004</b>	<b>Federal Utility Partnership Working Group Conference Downey, CA</b>	<b>Department of Energy's Federal Energy Management Program</b>
<b>November 10-12, 2004</b>	<b>Greenbuild International Conference and Expo Portland, OR</b>	<b>U.S. Green Building Council</b>
<b>December 3, 2004</b>	<b>Houses that Work Stockton, CA</b>	<b>Energy and Environmental Building Association</b>

[Back to Table of Contents](#)